

BLEHOVA, B.; DANESOVA, J.; MILUNICOVA, A.; STOLZ, J.

Lupus erythematosus or a disease simulating lupus erythematosus developing following triantein therapy. Cesk. pediat. 14 no.7: 654-657 July 59

1. Detska klinika hygienicke fakulty, predn. prof. Pisarovicova-Cizkova, krajska transfuzni stanice, predn. J. Mestan, patologicko-anatomicky ustav hygienicke fakulty, predn. prof. doc. J. Stolz.
(HYDANTOIMS, effects, injuries)
(LUPUS ERYTHEMATOSUS, etiology)
(EPILEPSY, therapy)

STOLZ, J.

Limitations of cytological and histopathological studies in
morphological diagnosis of diseases. Cas.lek.cesk.99 no.41:
1312-1313 ? 0'60.

1. Patologickoanatomicky ustav LFH KU v Praze, prednosta doc.
dr. J.Stolz.

(CYTODIAGNOSIS)

CIZKOVA-PISAROVICOVA, Jirina; PADOVEC, Jaroslav; SKAMENOVA, Bedriska;
STOLZ, Josef

Fetal development in a hypothyroid mother. Cas.lek.cesk 100 no.24/25:
751-754 23 My '61.

1. Detska klinika LFH KU v Praze, prednosta prof. Dr. Sc. MUDr.
J. Cizkova-Pisarovicova. Gynekologicka klinika LFH KU v Praze,
prednosta doc. dr. J. Padovec. II. interni klinika LFH KU v Praze,
prednosta prof. Dr. Sc. MUDr. Jiri Syllaba. Ustav patologicke
anatomie LFH KU v Praze, prednosta doc. dr. Josef Stolz.

(HYPOTHYROIDISM in pregn) (PREGNANCY compl)
ABNORMALITIES etiol)

HAJEK, M.; OPPLT, J.; MISAK, J.; STOLZ, J.

A rare case of testicular teratoma associated with gynecomastia. Cas.
lek.cesk 100 no.36:1133-1138 8 S '61.

1. Chirurgická klinika LFH KU v Praze, přednosta prof. dr. Emerich
Polak. Oddělení pro klinickou biochemii LFH KU v Praze, přednosta
primář MUDr. J. Oppl. Katedra patologické anatomie LFH KU v Praze,
přednosta doc. dr. J. Stolz.

(TESTES neopl) (TERATOID TUMOR compl)
(GYNECOMASTIA compl)

POLAK, Emerich; PETRÁKOVÁ, Jitka; STOLZ, Josef

On the problem of malignant bronchial adenoma. Cas. lek. česk.
101 no.19:604-607 My '62.

1. Chirurgická klinika LFH KU v Praze, přednosta prof. dr. E.Polak.
Patologicko-anatomický ústav LFH KU v Praze, přednosta doc. dr. J.Stolz.
(BRONCHI neoplasms)

PETRIKOVA, J.; POLAK, E.; JIRASEK, A.; STOLZ, J.

Successive duplication of bronchogenic carcinoma. Cas. lek. cesk.
101 no.35:1065-1070 31 Ag '62.

1. Chirurgická klinika lékařské fakulty hygienické KU v Praze, přednosta
prof. dr. E. Polak. I. patologickoanatomický ústav fakulty všeobecného
lékařství KU v Praze, přednosta prof. dr. B. Bělina. Patologickoanatomický
ústav lékařské fakulty hygienické KU v Praze, přednosta doc. dr. J. Stolz.
(CARCINOMA BRONCHOGENIC) (PNEUMONETOMY)

MARTINEK, J.; STOLZ, J.

Dysgenetic telangiectasis as a cause of unilateral renal hematuria. Rozhl. chir. 43 no.3:181-184 Mr'64

1. Chirurgická klinika lékařské fakulty hygienické KU v Praze (prednosta: prof.dr. E.Polak, DrSc.); Patologicko-anatomický ústav lékařské fakulty hygienické KU v Praze (prednosta: doc. dr. J.Stolz) a Urologické oddělení polikliniky CUNZ v Praze 3 (vedoucí: MUDr. J.Martinek).

★

RISKO, Tibor, dr.; technikai munkatars: STOLZ, Laszlo, dr.

A device for bone biopsy. Orv.hetil. 102 no.35:1663-1664 27 Ag '61.

1. Allami Fodor Jozef TBC Gyogyszertar, I. Sebészeti Osztaly.

(BONE AND BONES pathol) (BIOPSY equip & supply)

ABT. TUP. : 1000000. 0. 10. 10. 0.

27017

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1000000. 0. 10. 10. 0. The first of these is the fact that the United States has a large and growing population of people who are of Mexican descent. This population is growing rapidly and is becoming more and more integrated into the United States. The second of these is the fact that the United States has a large and growing population of people who are of Mexican descent. This population is growing rapidly and is becoming more and more integrated into the United States. The third of these is the fact that the United States has a large and growing population of people who are of Mexican descent. This population is growing rapidly and is becoming more and more integrated into the United States.

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ACC NO: AP6001167

SOURCE CODE: GE/0025/65/008/037/0425/0429

AUTHOR: Stolz, W. Prokert, K.

ORG: Institute for the Application of Radioactive Isotopes, Technical University, Dresden (Institut für Anwendung radioaktiver Isotope der Technischen Universität)

TITLE: Chemical dosimetry of ionizing radiation with the leuco compounds of some triphenylmethane dyes in polystyrene

SOURCE: Kernenergie, v. 8, no. 7, 1965, 425-429

TOPIC TAGS: radiation dosimetry, ionizing radiation, dye chemical, reaction mechanism, radiation dosimeter, polystyrene, radiation chemistry

ABSTRACT: The possibility of chemical dosimetry of gamma and beta radiation with the leuco compounds of benaurin, fuchsin, Doebner's violet, methyl violet, crystal violet, and malachite green in polystyrene was studied. The dosimeters have the form of a thin polystyrene foil, in which the leuco compound of one of the dyes mentioned together with a heavy volatile halogen hydrogenic carbon is embedded. By the irradiation, amounts of the corresponding triphenylmethane dye proportional to the absorbed dose are formed in the foils. The dose rate and temperature response as well as the reproducibility of the dosimeter reactions were investigated. The reaction mechanism is discussed. The authors sincerely thank Mrs. Prof. Dr.-Engr. L. Herforth for the encouragement on this analysis and assistant Miss G. Grahl for her assiduous

Card 1/2

2

L 8827-66
ACC NR: AF6001167

cooperation. Orig. art. has: 4 figures, 3 tables, 3 formulas. [MA]

SUB CODE: .07.11 / SUBM DATE: 08Mar65 / ORIG REF: 003 / OTH REF: 003

Card 2/2

STOLTMAN, KAROL BOGUMIR

Partyzantka; Czyli, Wojna Dla Ludow Powstajacych Najwlasciwsza. (Opracowal Marian Anusiewicz) (Warszawa) Wydawn. Ministerstwa Obrony Narodowej (1959)

248 P. Illus., Charts, Maps, Tables.

25 cm. (Wojskowy Instytut Historyczny. Prace B. Komisji Wojskowo-Historycznej. Seria B., nr. 5)

Includes Bibliography.

STOLZMAN, Maria

"History of the school of agriculture in Czernichow" by
Stanislaw Brzozowski. Reviewed by Maria Stolzman. Kwart
hist nauki i tech 8 no.2:295-296 '63.

L 777-1-1

ACC NR: AP6020X04

(A)

SOURCE CODE: PO/0071/65/000/008/0493/0494

AUTHOR: Stolzman, Maria (Master engineer; Krakow)

ORG: Institute of Zootechnology, Krakow (Instytut Zootechniki); Institute of Applied Statistics, Balicach (Zaklad Statystyki Hodowlanej)

TITLE: Results of German studies on the effectiveness of many years' use of artificial insemination in rabbits

SOURCE: Medycyna weterynaryjna, no. 8, 1965, 493-494

TOPIC TAGS: rabbit, biologic reproduction, animal husbandry

ABSTRACT: Data from 1956 to 1963 on reproductive efficiency and related factors in five groups of rabbits, including a naturally bred group and a group consistently bred with artificial and diluted semen; the results are discussed especially with regard to the possible extrapolation in cattle. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: none

Card 1/1 CC

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the report is a very good one. It is a very good one.
The second point of the report is that the report is a very good one.
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The seventh point of the report is that the report is a very good one.
The eighth point of the report is that the report is a very good one.
The ninth point of the report is that the report is a very good one.
The tenth point of the report is that the report is a very good one.

DADLEZ, J.; STOLZMAN, Z.

Oxidation of methyl alcohol in a mixture of potassium dichromate and sulphuric acid at 60° C. Bull. Soc. chim. Pożnan; Ser C no. 2:6-12 1951. (CML 23:3)

1. Of the Institute of Pharmacology and of the Institute of Physiological Chemistry of Pożnan Medical Academy.

DADLEZ, J.; STOLZMAN, Z.

The absorption of nitrogen peroxides in weak alkali and buffer solution. Bull. Soc. amis sc. Poznan; Ser C no. 2:13-17 1951.
(CLML 23:3)

1. Of the Institute of Pharmacology and of the Institute of Physiological Chemistry of Poznan Medical Academy.

1. The first part of the document is a list of the names of the persons who were present at the meeting.

2. The second part of the document is a list of the names of the persons who were present at the meeting.

3. The third part of the document is a list of the names of the persons who were present at the meeting.

4. The fourth part of the document is a list of the names of the persons who were present at the meeting.

5. The fifth part of the document is a list of the names of the persons who were present at the meeting.

STOLZMANN, Zdzisław

Methods of clinical biochemistry, their properties and methods
of interpretation. Postępy biochem. Vol.2:21-30 1954.
(BIOCHEMISTRY,
methods in clin.biochem.)

STOLZMANN, Z.; CHMIEL, J.; PIETZ, G.

Effect of metal ions on life span of erythrocytes. Acta physiol.
polon. 5 no.4:615-617 1954.

1. Z Zakladu Chemii Fizjologicznej w Poznaniu. Kierownik: prof. dr
Z.Stolsmann.

(ERYTHROCYTES,
life span, eff. of ions)
(IONS, effects,
on erythrocyte life span)

STOLZMANN, Z.; BLAWACKA, A.; ROTH, Z.

Liver and muscle glycogen in normal nutrition and following starvation in mice. Acta physiol. polon. 5 no.4:623-624 1954.

1. Z Zakladu Chemii Fizjologicznej w Poznaniu. Kierownik: prof. dr Z.Stolzmann.

(MUSCLES, metabolism,

glycogen, in normal nutrition & starvation in mice)

(LIVER, metabolism,

glycogen, in normal nutrition & starvation in mice)

(GLYCOGEN, metabolism,

liver & musc., in normal nutrition & starvation in mice)

(FASTING, effects,

on liver & musc. glycogen in mice)

57 2 1944

Chemical changes in preserved blood. *Z. Stolzmann, S. Magnus, M. Piets, T. Pra-wodnicki, and T. Zabrzyski. Po-ned. Towars. Przyjaciół Nauk, Prace Komisji Med. Do-wiadczalnej* 11, 3-18(1954)(English summary).—Three dif-ferent samples of human blood were investigated for bio-chem. changes in both blood phases during 28 days pres-ervation at 3°; data were secured on the 1st day of the pre-servation and each 3rd day thereafter. In plasma Fe in-creased from 214-286 to 290-804 γ /100 ml.; nonprotein N from 18.4-21.8 to 18.1-23.1 mg. %; an-1 total and inorg. P from 8.5-10.1 and 2.0-2.2 to 12.9-17.5 and 6.1-8.5 mg. % resp. The relative light transmittance at 810 and 690 m μ of the plasma solns. dild. 1:8 with a saline soln. decreased from 87 and 90 to 43 and 42 %, resp.; total proteins (5.8-6.0%), uric acid (2.0-3.8 mg. %), urea (24.2-34.2 mg. %), and the α (1.3480-92) remained nearly unchanged. In whole blood inorg. P increased from 7.6-9.4 to 13.2-14.8 mg. %, while glucose dropped from 390-401 to 210-272 mg. %; a surprising decrease of nonprotein N was noticed. The detn. of the resistance of erythrocytes to physiol. NaCl soln. (0.9%) revealed a partial hemolysis of the erythrocytes after 13-16 days storage. Thus, erythrocytes and to some extent leucocytes are responsible for the biochem. changes in preserved blood.

E. Wierbicki

MD

4

STOLZMANN, Zdzislaw, Prof., Dr.; BLAWACZA, Maria; ROTH, Zofia

Liver and muscle glycogen in normally fed mice. Bull. Soc. sci
sc. Poznan, ser. C No.6:51-70 1956.

1. Inst. of Physiological Chemistry of the Acad. of Med. in Poznan.
(GLYCOGEN, metabolism,
liver & musc. in mice fed normal diet)
(LIVER, metabolism,
glycogen in mice fed normal diet)
(MUSCLES, metabolism,
glycogen in mice fed normal diet)

POLAND / Human and Animal Physiology. Carbohydrate Metabolism.

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 59812

Author : Stolzmann, Z.; Blawacka, M.; Roth, Z.

Inst : Not given

Title : Changes in the Glycogen Content in the Liver and Muscles
of Mice during Starvation

Orig Pub : Bull. Soc. amis sci. et lettres Poznan, 1956, C, No 6,
71-82

Abstract : Mice were starved from one to 24 hours. In the first hours
of starvation, the liver glycogen content fell in all
animals; by the 8th to 24th hour, it rose. Changes in
glycogen content in the skeletal muscles were negligible. --
Ya. A. Lazaris

Card 1/1

Stability/Human and Animal Physiology (Normal and Pathological).
Blood, Blood Transfusions and Blood Substitutes.

7-4

Abstr Jour : Ref Zhur - Biol., No 11, 1958, 50707

Author : Stolzmann, Z., Chmiel, J., Pictz, Ca.

Inst : -

Title : The Effect of Metallic Ions upon the Stability of
Erythrocytes.

Orig Pub : Soc. amis et lettres Poznan, 1956, C, No 6, 83-94.

Abstract : The effect of Fe^{2+} , Mg^{2+} , and Co^{2+} upon the resistability
of erythrocytes (E) which were preserved in vitro under
sterile conditions at 14-16° C was studied. The compa-
rison establishing the degree of hemolysis (H) of E taken
from banked blood, and of E in hypertonic NaCl solutions
(in concentrations of 0.500 to 0.575 percent with or with-
out the abovementioned ions being added) has demonstrated
that Fe^{2+} , Mg^{2+} , and Co^{2+} increase the stability of E.
The degree of inhibition of H under the influence of any

Card 1/2

- 29 -

STOLZMANN, Zdzislaw, Prof., Dr.; CHWIEK, Josef, Dr.; PIETZ, Czeslawa, Dr.

A quantitative interpretation of the degree of reversion of erythrocyte hemolysis. Bull. Soc. sci. Poznan, ser. C No.6: 95-103 1956.

1. Inst. of Phys. Chemistry of the Med. Acad. in Poznan.

(HEMOLYSIS,

quantitative interpretation of degree of reversion of hemolysis)

EXTRACT: MEDICAL Soc 2 Vol 12/2 Phys. Med. Feb 79

804. INFLUENCE OF TEMPERATURE ON THE OSMOTIC STABILITY OF ERYTHROCYTES - Stohrman, Z., G. J. and J. and Kari, H. Test. of Physiol. Chem., Med. Acad., Poznań - BELL, SOCLAMIS SOLLECTIFRES POZNAŃ 1957, VII, Série C Médecine (1-16) Graphs 4 Tables 6

POZNAN, 1957 VII Serie C Medycyna 1-10 (Graphs 4 Tables 5)

A sudden change of temperature in the medium affects to a considerable extent the degree of osmotic resistance of the erythrocytes and shows distinct differences which may be determined quantitatively. If the erythrocytes are added immediately after having been drawn to NaCl solutions of various temperatures within limits of 10° to 15°C., the extent of osmotic resistance to hypotonic NaCl solutions which is the greater the higher the temperature of these solutions. The erythrocytes added to hypotonic NaCl solutions with a lower temperature than that at which they were preserved always show a greater osmotic resistance. Erythrocytes added to hypotonic NaCl solutions with a higher temperature than that of preservation have always a reduced osmotic resistance. The differences in the osmotic resistance of erythrocytes are much more distinct after 3 hr. of preservation as compared with an analogous experiment made after 24 hr. of preservation. This phenomenon should be ascribed to a more rapid exhaustion of energy reserves. The greater stability of the erythrocytes at higher temperature may be explained by an intensification of biochemical processes, especially glycolysis and the release in these processes of energy required for maintenance of stability of the structure of the red cell.

STOLZMANN, Z.; CHMIEL, J.; KARON, H.

Effect of temperature on osmotic resistance of the erythrocytes. Acta
physiol. polon. 8 no.3:534-535 1957.

1. Z Zakładu Chemii Fizjologicznej A. M. w Poznaniu. Kierownik: prof.
dr Z. Stolzmann.

(ERYTHROCYTES

osmotic resist., eff. of temperature (Pol))

STULZMANN, Zdzisław

Influence of the hormones of the pituitary gland of the brain upon the regeneration of the albumen of blood plasma; studies on regeneration in the Physiological Chemistry Institute of the School of Medicine in Poznan. Zesz probl nauki pol no.18:81 83 pt.2 1959.

1. Zaklad Chemii Fizjologicznej, Akademia Medyczna, Poznan. Wspolpracownicy Zakladu: M. Blawacka, J. Chmiel, H. Filipek, H. Karon, M. Pietz, Z. Roth.

*

PIETZ, C.; STOLZMANN, Z.

Time and environmental factors in the reversibility of
erythrocyte hemolysis. Acta physiol. polon. 11 no. 5/6: 861 '60.

1. Z Zakładu Chemii Fizjologicznej A.M. w Poznaniu, Kierownik:
prof.dr. Z. Stolzmann.
(HEMOLYSIS)

HIEROWSKI, Marian; STOLZMANN, Zdzislaw

Effect of chloramphenicol on the activation of amino acids in
Escherichia coli K12a. *Acta microbiol. pol.* 10 no.2:135-140 '61.

1. Z Zakladu Chemii Fizjologicznej Akademii Medycznej w Poznaniu.

(*ESCHERICHIA COLI* pharmacol)
(CHLORAMPHENICOL pharmacol)
(AMINO ACIDS metab)---

STOLZMAN, Z., PIETZ, Gz.

The reversion of hemolysis of the erythrocyte and quantitative interpretation of this phenomenon. Postepy biochem. 8 no.4: 555-556 '62.

1. Z Zakładu Chemii Fizjologicznej AM w Poznaniu.
(HEMOLYSIS)

STOIZNAN, Z., WAILO, A. Z.

Erythrocytes as carriers of the products of protein digestion. 7. 1962
biochem. 8 no.4:560-561 '62.

I. Z Zakładu Chemii Fizjologicznej AM w Poznaniu
(ERYTHROCYTES) (AMINO ACIDS)

HIEROWSKI, M.; STOLZMANN, Z.

Effect of reduced glutathion of protein synthesis in the white matter of guinea pig's brain in the process of its development. Bull. Soc. anis sc. Poznan [mod] Ser. no.12:3-9 '63.

STOLZMANN, Zdzisław

Abnormal hemoglobins as an example of abnormal proteins.
Pol. arch. med. wewnet. 33 no.11: 1311-1319 '63.

1. Z Katedry i Zakładu Chemii Fizjologicznej AM w Poznaniu
Kierownik: prof. dr med. Z.Stolzmarn.

*

FILIPK-WENDER, H.; KARON, H.; STOLZMANN, Z.

The effect of hypophysectomy and of ACTH treatment upon composition and rate of serum protein regeneration in dogs following plasmapheresis. Bull. soc. amis. sci. Poznan [med.] 13:23-34 '64.

WOLLMANN, Izabela; FILIPKASINSKA, Helena; KAPON, Halina. 1964. 1. 1964.

The effect of hypophysectomy upon the composition and rate of regeneration of serum proteins in dogs following plasmapheresis. Acta physiol. Pol. 15 no.2:205-214. Mar-Apr '64.

1. Zakladu Chemii Fizjologicznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr H. Stolzmann) i 2. II Kliniki Chirurgicznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr H. Irena).

1. The first part of the document is a list of the names of the individuals who were involved in the project. The names are listed in alphabetical order. The names are: [illegible]

STOLZOVA-SUTCHISOVA, Marguerite

~~Rudolph Weigl, 1983-1957. J. Hyg. Epidem., Praha 2 no.21:53-254 1958.~~

(ORIGINALS,

Weigl, Rudolph (Fr))

STOMA, M. F.

STOMA, M. F.- "Effect of a Tendon-muscular Tension of Varying Degree on the State of the Motor Apparatus." Min of Public Health RSFSR, Leningrad Sanitary-Hygienic Med Inst, Leningrad, 1955 (Dissertations for Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

USSR/Human and Animal Physiology. Neuro-Muscular Physiology.

T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36798.

Author : Stora, M.E.

Inst : Leningrad Sanitary-Hygiene Med. Institute and
Pediatric Orthopedic Institute.

Title : The Effect of Muscle Stretching on its Functional
Condition in Experiments on the Whole Organism.

Orig Pub: Tr Leningr. san gigen med. in-ta l n-i ortoped. in-ta
1956, 20, 127-133.

Abstract: A thread was fixed to the tendon of the gastrocnemius
muscle of rabbits (in situ, without anesthesia), it was
pulled over a pulley and a weight attached at its end.
The rheobase and chronaxy was determined by muscle
contraction in the area of the active electrode. The
biological currents were led to an oscillograph from

Card : 1/3

APPROVED FOR RELEASE: 08/26/2000

2 electrodes, fixed to the muscle, at a distance of
1 cm from each other. The highest elevation of irri-
tability was noted by stretching the muscle with a
force of 3 kg. the chronaxy was shortened on the
average by 10% of the original value. The functional
condition of the symmetrical muscle also changed re-
markably, but in the opposite direction. This fact
is explained by the author by an interrelationship
between the centers of both gastrocnemii muscles.
During stretching of the muscles for a period of
30-40 min., phasic changes in their condition were
noted. The frequent and large amplitude action cur-
rents noted at the beginning of the stretching,
gradually decreased, but up to the end of the experi-
ment, the amplitude and frequency of the action currents

CIA-RDP86-00513R001653410009-2"

Card : 2/3

USSR/Human and Animal Physiology. Neuro-Muscular Physiology.

T

Abstr Jour: Ref Zhur-Biol., No 8, 1958, 36793.

remained higher than the value of the biological
currents registered prior to stretching of the
muscle.

Card : 3/3

Effect of the extension of a muscle on its functional state in vivo
experiments. Trudy Leningradskogo gosudarstvennogo universiteta (1956). (MIRA 10:9)

1. Kozlov, A. I. (prof. - prof. Yu. V. Uflyand) Leningradskiy
sanitarne-gigiyenicheskiy institut
(MIRA, physiology.
off. of extension (Rus))

EXCERPTA MEDICA Sec 2 Vol 12/9 Physiology Sept 59

4292. FUNCTIONAL STATE OF MUSCLES SUBJECTED TO CHRONIC ALTERATION OF STRETCH (Russian text) - Stoma M. F. Dept. of Physiol., Med. Inst. of Sanit. and Hyg., Leningrad - FIZIOL. ZH. IM. SECH. 1958, 44/8 (755-760) Tables 4

By means of a surgical operation, the degree of natural stretch of rabbit gastrocnemius muscles was increased by 1, 2, 3, or 5 kg. Under these conditions, muscle rheobase and chronaxie were lowered, more so with medium values of muscle stretch (3 kg.). In contrast, surgical decrease of the stretch of a muscle increased its rheobase and chronaxie.

Simonson - Minneapolis, Minn.

STOMA, M.F., kand.med.nauk

Changes in the central nervous system following trauma of the motor apparatus. Ortop.travn. i protez. 20 no.2:49-51 P '59.

(MIRA 12:12)

1. Iz kafedry normal'noy fiziologii (zav. - prof. Yu.M. Uflyand)
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(EXTREMITIES, wds. & inj.

CNS changes (Rus))

(CENTRAL NERVOUS SYSTEM, pathol.

in trauma of extremities (Rus))

DONSKAYA, L.V.; STOMA, M.F.

Physiological analysis of the effect of vibrations on the organism.
Gig.i san. 26 no.1:37-48 Ja '61. (MIRA 14:6)
(MUSCLES) (VIBRATION—PHYSIOLOGICAL EFFECT)

STOMA, M. P.

Adaptation of the motor analyzer to prolonged muscle stress.
Trudy LSGMI 64:77-87 '61. (MIRA 19:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo
meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(MUSCLES) (STRESS(PHYSIOLOGY))

STOMA, M. F.

Electromyographic analysis of muscle innervation under a given tension in an experiment on the whole body. Trudy LSQMI 64: 103-111 '61. (MIRA 15:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(ELECTROMYOGRAPHY) (MUSCLES--INNERVATION)
(STRESS(PHYSIOLOGY))

DONSKAYA, L. V.; STOMA, M. F.

Bioelectrical activity of the muscles during rhythmic vibration stimulation of the receptors. Trudy LSCHM 64:136-143 '61.

(MIRA 15:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand i kafedra gigiyeny truda Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Ye. TS. Andreyeva-Galanina.

(ELECTROMYOGRAPHY) (VIBRATION—PHYSIOLOGICAL EFFECT)

STOMA, M. F.

Electromyographic studies of parabolic phenomena in the central nervous system in injuries to the tendons. Trudy LSGMI 64: 119-127 '61. (MIRA 15:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(TENDONS—INJURIES AND RUPTURES) (ELECTROMYOGRAPHY)
(NERVOUS SYSTEM)

STOMA, M.F.

Analysis of the physiological mechanism of the effect of vibration on the neuromuscular system. Trudy ISGMI 75:25-32 '63. (MIRA 17:4)

1. Kafedra gigiyeny truda (zav. kafedroy - prof. Ye.IS. Andreyova-Galanina) i kafedra normal'noy fiziologii (zav.-prof. Yu.M. Uflyand) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

ANATONOVA, V.G.; STOKA, H.F.

Functional state of the neuromuscular apparatus in vibration disease. Trudy LSGMI 75:33-39 '63. (MIRA 17:4)

1. Kafedra gigiyeny truda s kliniko professional'nykh zabolevaniy (zav. kafedroy - prof. Ye.TS. Andreyeva - Galanina) i kafedra normal'noy fiziologii (zav. - prof. Yu.M. Uflyand) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

L 28076-66

ACC NR: AP6018170

SOURCE CODE: UR/0239/65/051/006/0646/0652

AUTHOR: Uflyand, Yu. M.; Stoma, M. F.

ORG: Department of Normal Physiology, Sanitary Hygienic Medical Institute,
Leningrad (Kafedra normal'noy fiziologii Sanitarno-gigiyenicheskogo meditsinskogo
instituta)

TITLE: Assimilation of rhythms by proprioceptive reflex centers in an
intact organism

SOURCE: Fiziologicheskii zhurnal SSSR, v. 51, no. 6, 1965, 646-652

TOPIC TAGS: rabbit, bioelectric phenomenon, reflex activity

ABSTRACT: The biocurrents of the calf muscle of unanesthetized rabbits were determined after a rhythmic motion at a constant frequency was imposed on this muscle by bending the foot of the animals periodically backwards. After awhile the biocurrents assumed the frequency of the imposed motion. Furthermore, the assimilated frequency was retained by the biocurrents for a certain period after the enforced motion had been discontinued. Upon prolonged irritation of the proprioceptors of the muscle by applying rhythmic motion, the lability of the reflex arc of the myotactic reflex of the muscle increased. The synchronism of the discharges of the motor neuron with the rhythmic mechanical stimuli was particularly pronounced at a frequency of stimuli of 40 per sec, while the increase of lability developed to a maximum extent at frequencies of the order of 100 per sec. The phenomenon of assimilation of rhythms by reflex centers was discovered by A. A. Ukhtomskiy. Orig. art. has: 4 figures. [JPB]

Card 1/1 SUB CODE: 06/ SUBM DATE: 04Feb65/ ORIG REF: 003

"Discharging Viscous Petroleum Products Under Pressure", p 309, in the Monograph "Investigation and Use of Petroleum Products", edited by N. G. Iuchkov, Gostoptekhnizdat, Moscow-Leningrad, 1950.

AID P - 862

Subject : USSR/Electricity

Card 1/1 Pub. 11 - 8/13

Authors : Payerman, A. I., Matsov, M. M., Stoma, V. V. and
Bukhbinder, N. I.

Title : Selection of semi-automatic welder arrangement

Periodical : Avtom svar., #4, 78-82, J1-Ag 1954

Abstract : Comparison of operating performance and initial cost of
three types of semi-automatic welders is presented with
2 controlling circuits and 3 tables with operational data.

Institution : None

Submitted : J1 20, 1953

STOMAZHIN, A.Ya.; POLYAKOV, A.M.

Unit for determining the solubility of nitrogen in liquid alloys.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.Inst.nauch. i tekhn.inform.
16 no.11:10-11 '63. (BIRA 16:11)

L 65050-65

ACCESSION NR: AP5021495

process for dissolution of nitrogen in nickel is given by the equation

$$\frac{1}{2}N_{2(g)} = [N]; K = \frac{f_N[\%N]}{p_{N_2}^{1/2}}$$

where $[\%N]$ is the concentration of nitrogen in the metal which is the equilibrium concentration at a given temperature with partial pressure of nitrogen in the gaseous phase p_{N_2} ; f_N is the activity factor which takes account of deviations of solutions of nitrogen in liquid metal from Henry's law. Mathematical analysis of the results of this study gives the following equation for the equilibrium constant of this reaction as a function of temperature:

$$\lg K = \lg[\%N] = -\frac{3610}{T} - 0.973$$

$$\Delta F^\circ = 69000 + 18.6T, \text{ joules/g}\cdot\text{at}$$

$$(\Delta F^\circ = 16500 + 4.45T, \text{ cal/g}\cdot\text{at})$$

It was found that chromium, molybdenum and tungsten reduce the activity factor of nitrogen in nickel (see fig. 1 of the Enclosure). This is apparently due to the

Card 2/4

ACCESSION NP: AP5021495

fact that these elements have more affinity for nitrogen than for nickel. The parameters of interaction for these elements are

$$e_N^{Gr} = -0.11, e_N^{Mo} = -0.04, e_N^W = -0.026.$$

Orig. art. has: 6 figures, 4 tables, 5 formulas.

ASSOCIATION: none

SUBMITTED: 10Dec64

ENCL: 01

SUB CODE: MM, GC

NO REF SOV: 001

OTHER: 008

Card 3/4

I. 65050-65

ACCESSION NR: AP5021495

ENCLOSURE: 01

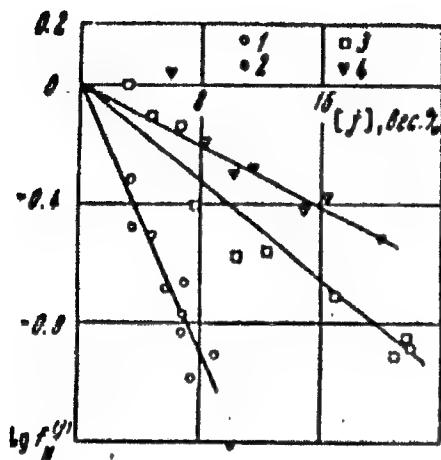


Fig. 1. Effect of chromium, molybdenum and tungsten on the activity factor of nitrogen in molten nickel at 1550°C and $P_{N_2} = 760$ mm Hg: 1--Ni-Cr alloys; 2--the same from data of Humbert and Elliott (Humbert, J. C., Elliott, J. F., "Solubility of Nitrogen in Liquid Fe-Cr-Ni Alloys," *Trans. Met. Soc. AIME*, 1960, 218, N 6, 1076-1088); 3--Ni-Mo alloys; 4--Ni-W alloys.

Card 4/4

ACC NR: AP6027004 (A) SOURCE CODE: UR/0148/66/000/005/0069/0072

AUTHOR: Ivanov, Ye. G.; Stomakhin, A. Ya.; Medvedeva, G. M.; Filippov, A. F.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Investigation of the solubility of nitrogen in melts of nickel with cerium
16 17 27

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1966, 69-72

TOPIC TAGS: solubility, nitrogen, nickel alloy, cerium, MELTEN METAL

ABSTRACT: The investigation was performed with the aid of the experimental setup used by A. Ya. Stomakhin (Candidate degree dissertation, Moscow Institute of Steel and Alloys, 1965). Six discrete melts of Ce-treated Ni (refined electrolytic Ni at least 99.987% pure, alloyed with 99.2% pure Ce) were melted at 1550°C (1823°K) in identical CeO₂ crucibles (used in order to reduce to a minimum the interaction between the Ce of the metal and the crucible). The time needed for the equilibrium to set in (10-20 min) was the longer the higher the Ce content of the alloy was. All the six melts were brought under the same temperature and pressure (298°K, 760 mm Hg) in order to assure the reproducibility of findings and subjected to tests for determining the solubility of nitrogen in these melts by the method described in Stomakhin's work.

Card 1/3

UDC: 669.24:541.8:546.17

ACC NR: AP6027004

The findings (Fig. 1) show that Co reduces the activity (increases the solubility) of N in the

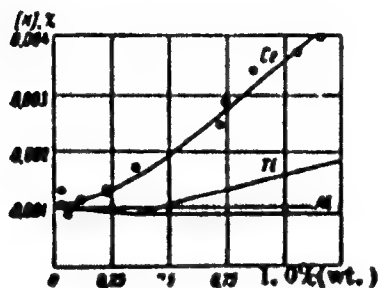


Fig. 1. Effect of Co, Ti and Al on the solubility of N in molten Ni at 1550°C and N_2 pressure of 1 atm

melt to a much greater extent than other metals, e.g. Ti and Al, even though the affinity of Co to N is much smaller than that of Ti. This may be attributed to the higher activity coefficient of Co, compared with Ti and Al, in molten diluted Ni-base alloys. The N content of Co-treated Ni alloy is extraordinarily low (<0.001% N for alloys containing 0.38 and 2.87% Co). It is further established that no nitride phase forms in these alloys at 1550°C and $P_{N_2} = 1$ atm.

Card 2/3

L 04737-67

ACC NR: AP6027004

3
At room temperature, however, the alloy with 0.3% contains, as shown by metallographic examination, a nitride phase in the form of minute inclusions of a color that is gray in a bright field and pink in a dark field. Therefore, by analogy with the nitrides of Ti and Al, the nitrides of Ce also form in Ni alloys on cooling. Orig. art. has: 4 figures, 3 tables.

SUB CODE: 13, 11 / SUBM DATE: 20Jan66 / ORIG REF: 001/ OTH REF: 002

Card

3/3

STOMAKHIN, I.B., inzhener.

Fulfilling the industrial plan. Stroi.prom.25 no.10:4-6 0 '47.
(Construction industry) (MLRA 9:1)

STOLIKHIN, I.B.

Plan for introducing progressive technology in 1989. Stroi.
proj. 22 no.2:1-3 7 '89. (MIRA 13:2)

1. Nachal'nik tekhnicheskogo upravleniya Ministerstva stroitel'-
stva prodpriyatiy tyazheloy industrii.
(Construction industry)

PODSHIVALENKO, P.D.; BALIKHIN, M.I.; BASHINSKIY, S.V.; IVANOV, N.A.;
KACHALOV, N.N.; MEMKOV, O.P.; ONUVRIYEV, I.A.; PAKHOLEGIN, V.I.;
RUMYANTSEV, A.F.; RUSAKOV, A.M.; SEMENOV, I.Ya.; STOMAKHIN, I.B.;
FILIPPOV, V.F. Prinimal uchastiye VINOGRADOV, K.K. PODGORNOVA, V.,
red.; TROYANOVSKAYA, N., tekhn.red.

[Construction economics; textbook] Ekonomika stroitel'stva; uchebnoe
posobie. Moskva, Gos.izd-vo polit.lit-ry, 1960. 534 p.

(MIRA 14:1)

1. Kommunisticheskaya partiya Sovetskogo Soyusa. Vysshaya partiy-
naya shkola. 2. Chlen kollegii Tsentral'nogo statisticheskogo
upravleniya SSSR (for Vinogradov).
(Construction industry)

STOMAKHIN, I.B.

Planning of standard industrial construction in 1960. Prom.
stroil. 38 no.3:4-8 '60. (MIRA 13:6)

1. Gosstroy SSSR.

(Factories--Design and construction)

PODSHIVALENKO, P.D.; BALIKHIN, M.I.; BASHINSKIY, S.V. [deceased]; IVANOV,
N.A.; KACHALOV, N.N.; NEMKOV, G.P.; ONUFRIYEV, I.S.; PERESLEGIN,
V.I.; RUMYANTSEV, A.P.; RUSAKOV, A.N.; SEMENOV, I.Ya.; STOFACHIN,
I.B.; FILIPPOV, V.F.; PODGORNIOVA, V., red.; TROYANOVSKAYA, N.,
tekhn. red.

[Economics of construction] Ekonomika stroitel'stva; uchebnik.
Moskva, Gospolitizdat, 1962. 542 p. (MIRA 15:11)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

(Construction industry)

FOLSHIVALENKO, I.D.; MALIKHIN, M.I.; MALIKHIN, M.V. [deceased];
IVANOV, N.A.; KACHALOV, B.N.; KIZYKOV, G.F.; ONUPRIYEV,
I.A.; PERESLEGIN, V.I.; RYBANSKY, A.F.; RUSAKOV, A.N.;
SEMEROV, I.Ya.; STOKHIN, I.B.; FILIPPOV, V.F.;

[Economics of construction; a textbook] Ekonomika stroitel'-
stva; uchebnik. Moskva, Politizdat, 1964. 542 p.

(MLA 18:8)

1. Kommunisticheskaya Partiya Sovetskogo Soyuza. Vysshaya
partiyaya shkola.

MELETSOVA, Z.V.; KOTSHEYN, A.G., kand. ekonom. nauk; STOMAKHIN, V.I.
Prinipali uchastiye: MEL'NIKOVA, T.A., inzh.; SEROBABOVA, N.I.,
inzh.; LOGINA, S.L., red. izd-va; IGNAT'YEV, V.A., tekhn. red.

[Planning labor productivity in construction] Planirovaniye pro-
izvoditel'nosti truda v stroitel'stve; nauchnoe soobshchenie.
Moskva, Gos.izd-vo lit-ry po stroit., arkhit., i stroit. mate-
rialam, 1961. 75 p. (MIRA 15:1)

1. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva
Akademii stroitel'stva i arkhitektury SSSR (for Kotshteyn,
Kurriyanova, Mel'nikova, Serobabova). 2. Nauchno-issledovatel'-
skiy ekonomicheskoy institut Gosudarstvennogo ekonomicheskogo
soвета SSSR (for Stomakhin).

(Construction industry--Labor productivity)

STOMAKHIN, V. I.

Planning labor productivity in construction in regional economic
councils and planning organs of the Union Republics. Biul. nauch.
inform.; trud i zar. plata 4 no.7:3-7 '61. (MIRA 14:8)
(Construction industry--Labor productivity)

KATS, V.I., doktor ekon. nauk; KIRICHENKO, V.N., kand. ekon. nauk;
IVANOV, Ye.A.; SAID-GALIYEV, K.G.; LUK'YANOV, E.B.; MUSATOVA,
V.A.; PLYSHEVSKIY, B.P., kand. ekon. nauk; STOMAKHIN, V.I.;
KARFUKHIN, D.N., kand. ekon. nauk; KIRICHENKO, N.Ya.;
ZHIDKOVA, M.V., kand. ekon. nauk; ANCHISHKIN, A.I.; KLINSKIY,
A.I., kand. ekon. nauk; SOLOV'YEV, N.S.; KLOTSVOG, F.N.;
VSYAKIKH, E.P.; IAGUTIN, N.S., kand. ekon. nauk; LEMESHEV, M.Ya.,
kand. sel'khoz. nauk; KORONOV, Yu.F., kand. ekon. nauk; SAVIN,
V.A.; TEREKHOV, V.F.; KUDROV, V.M., kand. ekon. nauk; AL'TER,
L.B., doktor ekon. nauk, red.; KRYLOV, F.N., kand. ekon. nauk;
LEPINKOVA, Ye., red.; KOKOSHKINA, I., mladshiy red.; ULANOVA, L.,
tekhn. red.

[Growth of the social product and the proportions of the
national economy of the U.S.S.R.] *Rost obshchestvennogo pro-*
izvodstva i proporcii narodnogo khoziaistva SSSR. Moskva,
1962. 453 p. (MIRA 16:2)

(Russia--economic policy)

KUPRIYANOVA, Zoya Vasil'yevna; STOMAKHIN, Vitaliy Iosifovich;
BOBYLEVA, L.V., red.; PONOMAREVA, A.A., tekhn. red.

[Planning labor productivity in building] Planirovanie
proizvoditel'nosti truda v stroitel'stve. Moskva, Eko-
nomizdat, 1963. 65 p. (MIRA 16:7)
(Construction industry--Labor productivity)

1. The first of the two main parts of the report is a
summary of the work done during the period.

2. The second part of the report is a detailed
account of the work done during the period. It is
divided into two main sections: (a) the work
done during the period, and (b) the work
done during the period.

• Stemaknin ya B

Manufacture of ferro coke—Y. M. Schuchart, Asst. J. H. Stomach and S. A. Schuchart, Owners and Chemists, H. B. K 1936 No. 2, St. Louis, Mo., writes to inquire how to make ferro coke by the method of adding the waste in the dust, fines, or a portion of the dust has been added to coal. When this is not the case, the coke is then made, the resulting ferro coke has a high ash content than the ordinary coke and the composition of the coke differs. Samples of coke even can be obtained from ferro coke differs only little from the ordinary coke and goes to be rejected by the blast, the A. C. H. and A. H. are in composition almost the same as N. H. and A. H. and almost the same as H. S. than the latter.

APONIN, K.B.; BURTSSEV, K.I.; BYSTROV, S.K.; VIMETS, G.B.; VODNEY, G.G.; VORONIN, A.S.; OEVLICH, A.S.; GRYAZNOV, N.S.; GUDIN, A.P.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDENKO, V.Ye.; DMITRIYEV, M.M.; DOLDE, M.M.; DOROTOBID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZELENITSKIY, A.G.; IVASHCHENKO, Ya.N.; KAPTAN, S.I.; KVASHA, A.S.; KIRZYEY, A.D.; KLISHEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; LOALOV, K.I.; LHYTNS, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBINKTS, I.A.; MANDRYKIN, I.I.; MUSTAPIN, P.A.; NEMIROVSKIY, N.Kh.; NEPEDOV, V.A.; OBUKHOVSKIY, Ya.M.; PRUTSEV, M.A.; PETROV, I.D.; PODOROZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVIYAKIN, A.A.; ROZHKOV, A.P.; ROZENGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKLIN, Ya.B.; TARASOV, S.A.; FILIPPOV, B.S.; FRIDMAN, N.K.; PRISHCHENKO, V.D.; KHAR'KOVSKIY, K.V.; KHOLOPITSKY, V.P.; TSAKEV, M.N.; TSOOLIN, M.E.; CHERNYI, I.I.; CHERTOK, V.T.; SHELKOV, A.K.

Samuil Berisevich Basmе.Кека 1 khin.no.6:64 '56.

(MLRA 9:10)

(Basmе, Samuil Berisevich, 1910-1956)

STOMAKHIN, Ya.B.

More consideration to be given to the quality of a standard design.
Koks 1 khim. no.12:54-55 '60. (MIRA 13:12)

1. Gosplan RSFSR.
(Coke industry--Standards)

Yakovlev, Pavel Stepanovich, 1904-1974. ⁷
Kavkazskiy, Pavel Stepanovich, 1904-1974. ⁷
Kavkazskiy, Pavel Stepanovich, 1904-1974. ⁷

See: North Atlantic Treaty Organization, Vol. 7 No. 1 May 1954.

STOMAKHINA, Rozaliya Iosifovna; INVASHEVA, Z.P., red.; KHELEMSKAYA, A.M.,
tshh.red.

[Soviet military comradeship; a bibliography] Sovetskoe voiskovoe
tovarishchestvo; rekomendatel'nyi ukazatel' literatury. Moskva,
1957. 30 p. (MIRA 11:2)

1. Moscow. Publichnaya biblioteka. Voennoy otdel.
(Bibliography--Soldiers)

СЕРГЕЙ, П., полковник запаса

Toward new achievements in military training. Komm. Vooruzh.
311 46 no.2:53-55 Ja '66. (MIR) 1966

STOMATIN, D., inzh.

Remote control in oil fields. Bezop.truda v prom. 2 no.4:28 Ap '58.
(Remote control) (Petroleum engineering) (MIRA 11:4)

S-258 62-002 001 007 013
1028-1228

AUTHOR: Korolev, V. I., Smirnov, I. G. and Stomma, R. P. (Moscow)

TITLE: Investigation of the stability of bimetallic cylindrical shells in axial pressure beyond the limits of elasticity

PERIODICAL: Inzhenernyy zhurnal, v. 2, no. 1, 1962, 98-110

TEXT: An approximate method is described for the determination of the critical loading and deformation, based on the consideration of local forms of stability only and the exclusion of non-linear forms of stability only and the exclusion of non-linear forms of stability loss. Bimetallic cylindrical shells, prepared from different combinations of soft steels 10, 25, 25, high-strength aluminium alloy D16 (D16) and aluminium magnesium alloy AMG-3 were used. Before assembly, the contact surfaces were covered with bakelite glue, the shells were tested only after the complete polymerization of the glue. The shells had a wall thickness between 1 and 2.5 mm, length 150 mm, mean radius 37.5 mm, ratio of working part of the shell to radius 2.14 to 2.91. They were tested on a machine with hydraulic drive, and the plastic deformations were measured by means of plastic indicators glued to the shell surface. The load and the deformation were continuously recorded by means of self-balancing automatic bridges of the type DMH-209M1 (EMP-209M1). Twelve monometallic and twenty-one bimetallic shells were tested in all. The results obtained were compared with the theoretical ones, and were found to be satisfactory. There are 9 figures and 9 tables.

SUBMITTED: May 22, 1961

Card 1-1

STOMONIAKOV, V.; BAKALSKA, V.

Apparatus for automatic light and sound signals. Izv. inst. fiziol.
5:195-199 '62.

(PHYSIOLOGY equip & supply)

BAKALEKA, V.; VASILEV, A.; STOMCHIakov, V.

Effect of the probability distribution of signals on the reaction
time. Izv. inst. fiziol. (Sofia) 8:247-258 '64

1. [Illegible text]

[Illegible text] Stavropol'skogo kraia.

2. [Illegible text]

3. [Illegible text]

100 11, 1.

"Transportation in the Building Industry Operate in Accordance with the Technological Characteristic of Construction Work." p. 262 (Stavetni Imuzyl, Vol. 3, no. 15/16, Aug. 1953, Praha)

50: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress, Feb. 1954, Incl.

STIGANS, Ya. A.: Master Tech Sci (1955) -- "The thermal decomposition of
peat in high-speed-heating". Moscow, 1955. 19 pp (Acad Sci USSR, Power
Engineering Inst Im G. M. Krzhizhanovskiy), 150 copies (KL, No 6, 1955, 150)

STONANS, Ya.A.; CHUKHANOV, Z.O.

Effect of the temperature and reaction time on the process of thermal decomposition of pent caused by rapid heating [with summary in English]. Inzh.-fiz. zhur. no. 9:16-28 S '58. (MIRA 11:10)

1. Institut khimii AN Latvyskoy SSR, g. Riga i Energeticheskiy institut AN SSSR, g. Moskva.
(Pent gasification)

STOMANS, Ya.A.; CHUKHANOV, Z.F.

Rapid thermal decomposition of peat in the presence of free oxygen.
Inzh.-fiz.zhmr. no.10:11-17 0 '58. (MIRA 11:11)

1. Energeticheskiy institut AN SSSR, g. Moskva, i Institut khimii
AN Latvyskoy SSR, g. Riga.
(Peat)

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A000/A101

X

... is regulated within a very wide range as to the
... of these ... Investigations were made at high-
... of solid and gaseous fuels by
... and still more rapid

...

...

Card 2/2

3/020/62/143/001/028/030
B101/B147

AUTHORS:

Shukhanov, Z. P., Corresponding Member AS USSR,
Kashurichev, A. P., and Stonana, Ya, A.

TITLE:

Effect of disproportionation of composition and increase
in yield of volatile fuel pyrolysis products during
high-rate heating

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 143, no. 1, 1962, 162 - 165

TEXT: The pyrolyses during high-rate heating (I) ($10^3 - 10^6$ °C/sec and more) and low-rate heating (II) (0.01 - 5.0 °C/sec) are compared on the basis of experimental data. Effects of disproportionation and of considerable changes in amount and type of volatile products were determined and found to be consistent with previous theoretical studies. For Moscow basin coal, the following data were obtained for II (600 °C): the volatile product contains the total O_2 , 65% H_2 , and ~25% C of the initial coal. For I (600 °C, 0.35 sec contact): ~25% O_2 , ~45% H_2 , and ~12% C. As for peat, the data for II are: steady increase in

Card 1/3

S 620/62/143/001/028/030
B101/B.147

Effect of disproportionation ...

volatile products up to 400 - 450 °C, the decelerated increase, maximum yield 64.9 %; the yield obtained for I was 85 % and more. I (600 - 900 °C) changes the process so that H₂ and O₂ are separated in the form of compounds transferring a maximum of C into the volatile product. The results are: reduced gas volume with increased contents of CO and unsaturated hydrocarbons, lower contents of CO₂, H₂, saturated hydrocarbons, and H₂O. The yield of tar rich in aromatics increases. Rapid removal of pyrolysis products from the reaction zone prevents secondary decomposition and allows control of the process. The above results were confirmed by pilot plants. There are 4 figures, 1 table, and 14 references: 9 Soviet and 6 non-Soviet. The four references to English-language publications read as follows: M. J. Byrgess, R. V. Wheeler, J. Chem. Soc., 105, 131 (1913); W. Fuchs, A. G. Sanigoff, Ind. and Eng. Chem. 34, no. 5, 567 (1942); D. B. van Krevelen et al., Fuel, 30, no. 11 (1951); D. Fitzgerald, D. B. van Krevelen, Fuel, 38, no. 1 (1959).

Card 2/3

KARLSON, K.P. [Karlsone, K.], red.; BAYARS, V. [Bajars, J.], red.
STONANS, Ya., red.; DALBIN', M.Ya. [Dalbins, M.], red.;
PLATNIYEKS, R.F. [Platnieks, R.], red.; LAPUSHONOK,
Yu.K., red.; TEYTEL'BAUM, A., red.; BITAR, A., tekhn.
red.

[Transactions of the Conference on the New Methods of the
Efficient Use of Local Fuels held in Riga, September 2 to
5, 1958] Trudy soveshchaniia po novym metodam ratsional'-
nogo ispol'zovaniia mestnykh topliv, Riga, 1958.

(MIRA 16:5)

1. Soveshchaniye po novym metodam ratsional'nogo ispol'zo-
vaniya mestnykh topliv, Riga, 1958. 2. Institut khimii Akademii
nauk Latvyskoy SSR (for Bayars, Dalbin').
(Fuel--Congresses)

STONANS, Ya.A.; CHUKHANOV, Z.F.

Investigating the process of the thermal decomposition of peat
under the effect of high-speed heating. Energotekh. ispol'. topl.
no.2:84-100 '62. (MIRA 16:5)

1. Chlen-korrespondent AN SSSR (for Chukhanov).
(Peat) (Carbonization)

STONANS, Ya.A., CHUKHANOV, Z.F.

Effect of oxygen concentration in a gas heat-transfer agent on the process of thermal decomposition of peat during high speed heating. Energotekh. ispol'. topl. no.2:101-106 '62. (MIRA 16:5)

1. Chlen-korrespondent AN SSSR (for Chukhanov).
(Peat) (Carbonization)